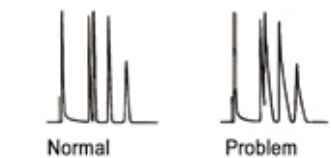
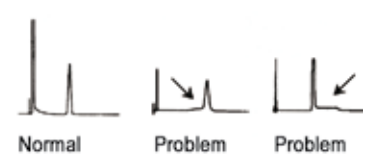
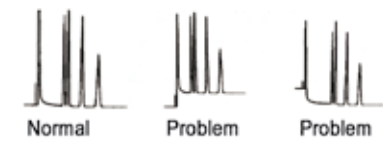
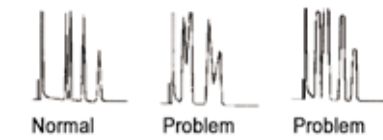


Consumables - GC Accessories

Liners

Liner Troubleshooting

Symptom	Possible Cause	Remedy
Tailing Peaks  <p>Normal Problem</p>	<p>Sample components adsorbed by column inlet liner or contaminated gold inlet seal.</p> <p>Needle hitting and breaking packing in inlet liner.</p> <p>Column end poorly cut (sample absorption).</p> <p>Broken or chipped inlet liner.</p>	<p>Use new, deactivated liner or clean old liner and replace glass wool.</p> <p>Partially remove packing from liner or use without packing.</p> <p>Remove column. Make a clean, square cut using a reliable capillary fused silica cutting tool (such as a ceramic wafer or the Agilent Column Cutter), then reinstall column.</p> <p>Make sure total flow in inlet is above 40 mL/min.</p>
Baseline Rise Before or After Peak  <p>Normal Problem Problem</p>	<p>Sample decomposing.</p>	<p>Remove inlet liner and check cleanliness. Use new, deactivated liner or replace glass wool and packing. Column /sample residues could also be the problem.</p>
Baseline Change After Large Peak  <p>Normal Problem Problem</p>	<p>Column and inlet liner mis-aligned.</p>	<p>Check installation of column end and inlet. See also "Septum Troubleshooting", liner ; adjust if necessary.</p>
Unresolved Peaks  <p>Normal Problem Problem</p>	<p>Column or inlet liner contaminated or column deteriorating.</p>	<p>Use a guard column to prolong column life. Remove inlet liner and check cleanliness. Use new, deactivated liner or replace glass wool and packing. Trim the front end of the column a minimum of 6 inches</p>

How to minimize problems

Change liners on a regular basis determined by :

- Previous use pattern
- Sample cleanliness
- Chromatographic abnormalities such as :
 - . Peak shape changes
 - . Peak discrimination
 - . Poor reproducibility
 - . Sample pyrolysis
 - . Active analyte response loss or decomposition